PATENT COOPERATION TREATY

From the

INTERNATIONAL SEARCHING AUTHORITY

To: PAIK, Nam-Hoon		PCT	
14th Fl., KTB Network Bldg., 826-14, Yeoksa Kangnam-ku Seoul 135-769 Republic of Kor	- WI	WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1)	
	Date of mailing (day/month/year)	27 APRIL 2005 (27.04.2005)	
Applicant's or agent's file reference 232	FOR FURTHER A	ACTION See paragraph 2 below	
PCT/KR2004/003287 141	national filing date (day/month/year) DECEMBER 2004 (14.12.2004)	Priority date(day/month/year) 18 FEBRUARY 2004 (18.02.2004)	
International Patent Classification (IPC) or both IPC7 H01B 3/30, C08G 77/04 Applicant SOGANG UNIVERSITY CORPOR			
Box No. IV Lack of unity of involved and statement uncitations and explanate Box No. VI Certain documents of Box No. VII Certain defects in the Box No. VIII Certain observations of Box No. VIII Certain observations observations of Box No. VIII Certain observations of Bo	opinion with regard to novelty, inventive ention nder Rule 43bis.1(a)(i) with regard to novions supporting such statement ited	step and industrial applicability relty, inventive step or industrial applicability:	
other than this one to be the IPEA and the clopinions of this International Searching Autl If this opinion is, as provided above, conside IPEA a written reply together, where approp of Form PCT/ISA/220 or before the expiration for further options, see Form PCT/ISA/220.	rity ("IPEA") except that this does not approsen IPEA has notified the International hority will not be so considered. Bred to be a written opinion of the IPEA, the triate, with amendments, before the expiration of 22 months from the priority date, when the priority date, when the priority date.	Bureau under Rule 66.1 bis(b) that written the applicant is invited to submit to the	
3. For further details, see notes to Form PCT IS	SA 220.		
Name and mailing address of the ISA KR	Authorized officer		
Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon Republic of Korea	302-701. KIM, Seung Soo		
Facsimile No. 82-42-472-7140	Telephone No. 82-42.	-481-5581	

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/KR2004/003287

Box No. I Basis of this opinion	
 With regard to the language, this opinion has been established on the basis of the international application in the language which it was filed, unless otherwise indicated under this item. 	ige in
This opinion has been established on the basis of a translation from the original language into the following lang, which is the language of a translation furnished for the purposes of international search	uage ch (under
Rules 12.3 and 23.1(b)).	
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessar claimed invention, this opinion has been established on the basis of:	y to the
a. type of material	
a sequence listing	
table(s) related to the sequence listing	
b. format of material	
in wirtten format	
in computer readable form	
c. time of filing/furnishing	
contained in the international application as filed.	
filed together with the international application in computer readable form.	
furnished subsequently to this Authority for the purposes of search.	
3. In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has bee filed or furnished, the required statements that the information in the subsequent or additional copies is identical to in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.	n that
4. Additional comments:	
4. Additional comments.	
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/KR2004/003287

Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability;
	citations and explanations supporting such statement

Statement		
Novelty (N)	Claims 1-10	YES
	Claims	NO
Inventive step (IS)	Claims 1-10	YES
	Claims	NO
Industrial applicability (IA)	Claims 1-10	YES
	Claims	NO

2. Citations and explanations:

Reference is made to the following documents:

D1) US 2003-55134 A

D2) US 2003-65123 A

D3) US 6632748 B

D4) KR 2003-24002 A

I-Novelty:

Claim 1 of the present invention is concerned with a template for producing nano-pores of cyclodextrin derivatives shown in chemical formula 1. In particular, the cyclodextrin derivatives as porogen have C_{1-6} trialkoxysilane groups. Although D1-D4 cited in the international search report discloses cyclodextrin derivatives as porogen, cyclodextrin derivatives C_{1-6} trialkoxysilane groups are not described in D1-D4. Accordingly, the subject matter of claim 1 seems to be novel.(PCT Article 33(2)). And also, independent claims 3, 4, 6 and 10 also have novelty as they include a novel element of claim 1. In addition, claims 2, 5, 7-9 comply with PCT Article 33(2) as they are dependent claims.

II-Inventive step:

1) Concerning claims 1, 3, 4, 6, 10 (Independent claims)

The references D1-D4 do not disclose cyclodextrin derivatives with C_{1-6} trialkoxysilane groups as porogen. In addition, it is not obvious from the references D1-D4 by the skilled person in the art. Consequently, there is no suggestion in any of the references, either alone or in combination, which would lead to the solution posed by the present invention. Therefore, claims 1, 3, 4, 6 and 10 of the present invention meet the criteria set out in PCT Article 33(3).

2) Concerning claims 2. 5. 7-9 (dependent claims) Claims 2. 5. and 7-9 also comply with PCT Article 33(3) as they are dependent claims.

Claims 1 to 10 meet the criteria set out in PCT Article 33(4), because they are directed to an industrially applicable low dielectric insulating film required for semiconductor devices.